



Wilkes County

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
1,2-Dibromomethane	Not Tested	0	0	0	0.05	µg/L	0	Not Tested		
1,2-Dichloropropane	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Arsenic	354	0.5	51.9	2.1	10	µg/L	5	1.41%		
Barium	280	100	200	152.9	2,000	µg/L	0	0.00%		
Benzene	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Cadmium	280	0.5	0.5	0.5	5	µg/L	0	0.00%		
Chromium	286	5	35	5.1	100	µg/L	0	0.00%		
cis-1,2-Dichloroethene (c-DCE)	Not Tested	0	0	0	70	µg/L	0	Not Tested		
Copper	348	25	230	28	1,300*	µg/L	0	0.00%		
Ethylbenzene	Not Tested	0	0	0	700	µg/L	0	Not Tested		
Fluoride	958	100	4,100.00	608.90	4,000*	µg/L	3	0.31%		
Iron	340	25	11,500.00	498.80	300*	µg/L	98	28.82%		
Isopropyl Ether	Not Tested	0	0	0	No drinking water standard	µg/L				
Lead	376	2.5	318	4.8	15	µg/L	11	2.93%		
Magnesium	348	8,800	8,476,000.00	40,031.30	No drinking water standard	µg/L				
Manganese	348	15	3,650.00	58.10	50*	µg/L	84	24.14%		

Contaminant	Number of wells tested	Minimum	Maximum	Average	Maximum Contaminant Level (MCL) * Secondary MCL	Units	Number of wells tested above MCL	Percentage of wells tested above MCL	Number of wells below MCL	Percentage of wells tested below MCL
Mercury	280	0.3	0.3	0.3	2	µg/L	0	0.00%		
Methyl tertiary butyl ether (MTBE)	Not Tested	0	0	0	20* (recommended taste and odor threshold)	µg/L	0	Not Tested		
Nitrate	306	500	11,600.00	1,385.10	10,000	µg/L	0	0.00%		
Nitrite	Not Tested	0	0	0	1,000	µg/L	0	Not Tested		
pH	348	5.4	9.7	7.14	6.5-8.5*	standard units	9	2.59%	69	19.83%
Selenium	280	2.5	10.1	2.6	50	µg/L	0	0.00%		
Silver	280	25	25	25	100*	µg/L	0	0.00%		
Sodium	276	1,000	638,000.00	22,465.20	No drinking water standard	µg/L				
Tetrachloroethylene (PCE)	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Toluene	Not Tested	0	0	0	1,000	µg/L	0	Not Tested		
trans-1,2-Dichloroethene (t-DCE)	Not Tested	0	0	0	100	µg/L	0	Not Tested		
Trichloroethylene (TCE)	Not Tested	0	0	0	5	µg/L	0	Not Tested		
Vinyl chloride	Not Tested	0	0	0	2	µg/L	0	Not Tested		
Xylenes (Total)	Not Tested	0	0	0	10,000	µg/L	0	Not Tested		
Zinc	340	25	23,260.00	413.40	5,000*	µg/L	5	1.47%		

* **Secondary MCL:** Secondary contaminants may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.⁸ The **Secondary Maximum Contaminant Level (SMCL)** is a non-enforceable standard for secondary contaminants in drinking water. SMCLs may

be based upon a contaminant's likelihood to cause changes to the taste, odor, or color of drinking water, or, may be based on the likelihood of the contaminant to cause technical changes such as damage to water fixtures or an increased availability of other contaminants in drinking water.⁸

Tracking and Analyzing Contaminants (TrAC) in Private Well Water in NC

UNC Superfund Research Program- Research Translation Core

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